

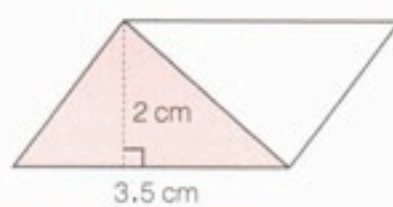
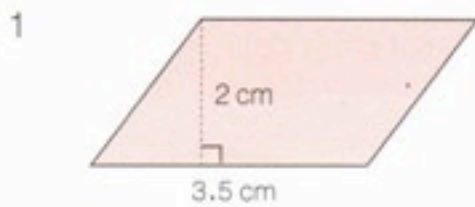
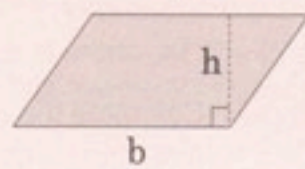
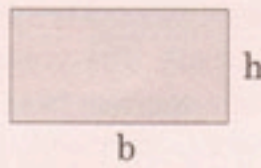
## A Parallelogram and Triangle

Area rectangle = base  $\times$  height

Area  $\square = bh$

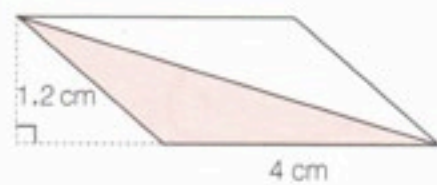
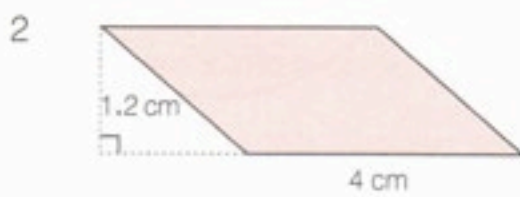
Area parallelogram = base  $\times$  height  
(the height of a parallelogram makes a right angle with the base)

Area  $\square = bh$



a) Area parallelogram = .....

b) Area triangle = .....



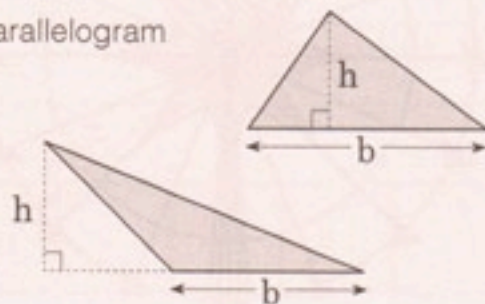
a) Area parallelogram = .....

b) Area triangle = .....

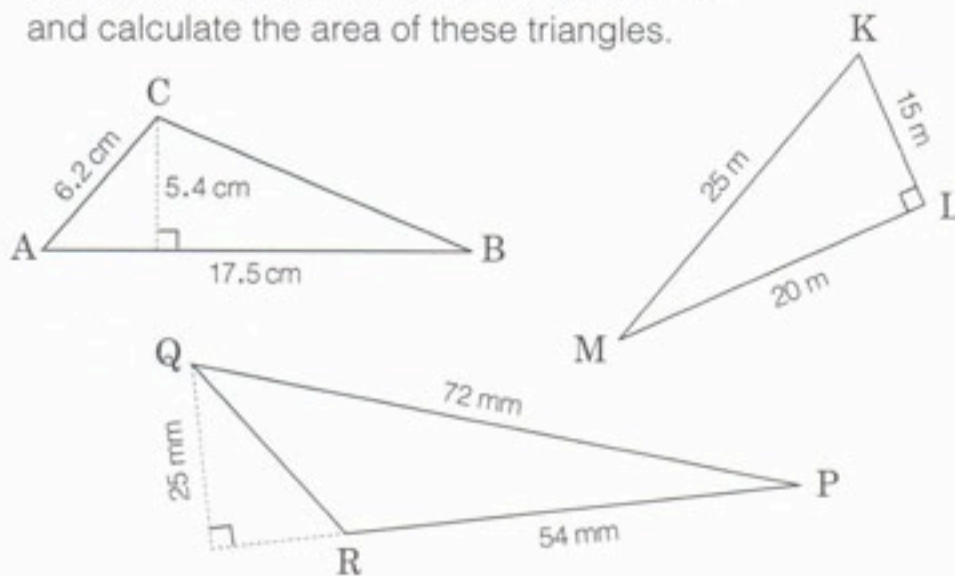
Area triangle =  $\frac{1}{2}$  area parallelogram

Area  $\Delta = \frac{1}{2}bh$

(the height makes a right angle with the base)



3 Carefully choose the relevant measurements and calculate the area of these triangles.



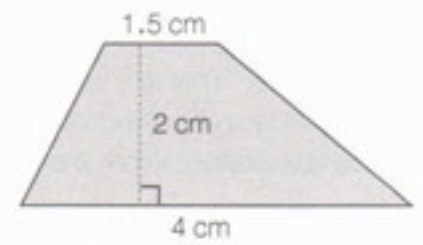
a) Area  $\Delta ABC =$  .....

b) Area  $\Delta KLM =$  .....

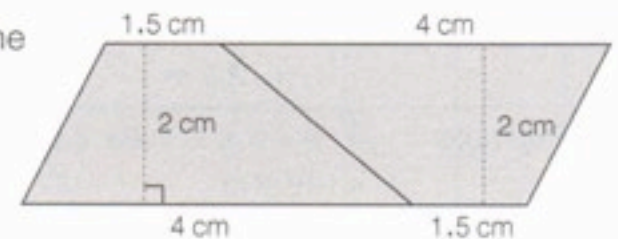
c) Area  $\Delta PQR =$  .....

## B Trapezium

1 Here is a method to calculate the area of a trapezium.



Imagine an identical trapezium glued to the first one as shown. The new shape is a parallelogram.



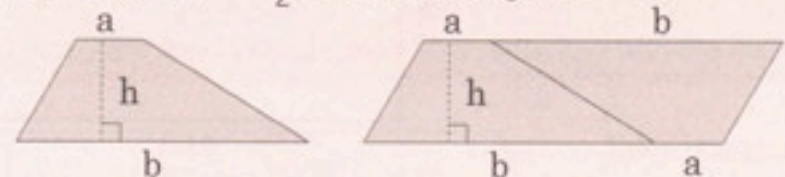
a) Calculate the area of this parallelogram.

b) Work out the area of the original trapezium.



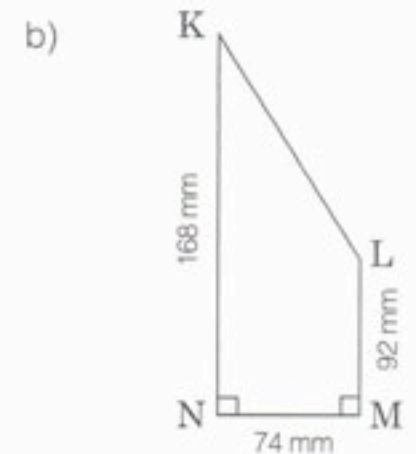
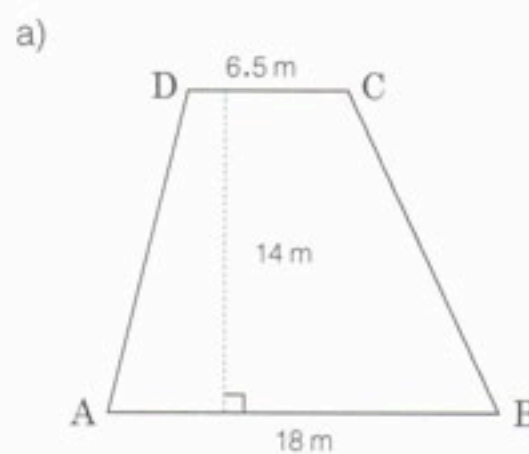
Calculate the area of this trapezium.

Area trapezium =  $\frac{1}{2}$  area parallelogram



Area  $\square = \frac{1}{2}(a+b)h$

3 Calculate the area of these trapezia.



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